

Solar energy research and development tallinn

In recent years, in addition to the traditional solar panels, the focus has shifted to building-integrated solar panels, where the solar cell is integrated into a building element in such a way that it is not even noticeable. As an example, Grossberg-Kuusk pointed out that Estonia already produces solar panels integrated into building materials - both metal roofs that generate solar electricity and roof tiles that are suitable for buildings under heritage protection. Initially, they will be based on first-generation silicon technologies.

In addition, under the leadership of Professor Anna Volkova, the Department of Energy Technology is setting up a solar energy laboratory, which will focus not only on generating electricity from the sun, but also on storing heat with solar collectors. Prof Volkova cited examples from Denmark and Latvia, where fuel-free heat is fed into district heating networks.

Solar photovoltaic technology provides a cost-efficient and flexible approach for energy-efficient buildings. Recently, solar architecture has shown considerable progress to help meet the requirements of new standards for building energy efficiency. Most of us are accustomed to photovoltaic systems installed on top of the existing roof. However, photovoltaic panels could be integrated into a roof, facade, or even windows.

The solar facade is not the only building integrated technology, and new solutions appear every day, this market is expected to double in the next two years. New products and technologies are also being developed in Estonia: solar roofs, solar windows, and even e-pavements for paths around buildings.

Many researchers have tried to develop a new technology that can meet industry's expectations. Andrii Chub, Senior Researcher at the Department of Electric Power Engineering and Mechatronics of the Tallinn University of Technology, offers a solution that meets all the mentioned expectations.



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